

TEST SPECIFICATION

Product:	Ceramicware [Food-Contact Use]		
Scope:	For Ceramic food-contact articles, excluding cookware & bakeware, etc.	Protocol No.	TYCP-02001-US
		Version	1.0
		Issue Date	Sep 27, 2011
		Prepared by	Intertek HK - TFH
		Page	1 of 5

Instructions to Vendors:

Dear Valued Vendor:

Product safety is a top priority at Taymark. We, with the assistance of Intertek, a CPSC-accredited third-party testing partner or lab, have identified the various rules and regulations as well as the necessary test requirements that we need to meet in our partnership to sell products in the United States. This has been assembled into our required Test Protocol. Each product that is supplied to us must comply with this Test Protocol and any required associated test protocol(s) identified within it.

You are required by the US Law to verify the products you provide to Taymark (or any other customer marketing to children in the USA) meet the required safety standards. Likewise, Taymark is required by US Law to assure that we have documentation to confirm that you have verified that your products meet the applicable safety standards. Once you have verified that the product(s) you have supplied to us conforms to the corresponding Test Protocol(s), and the testing was conducted within the past twelve (12) months, we ask that the appropriate representative from your company provide Taymark with the proper General Certificate of Conformity ("GCC") and the corresponding documentation that you used to support the GCC, including, where applicable and required, the CPSC-accredited third-party test data. For an example of an acceptable GCC, please go to <http://www.cpsc.gov/about/cpsia/faq/elecfaq.pdf>.

Key

†: Any element on the attached form with the following symbol ("†") is a Mandatory Requirement to which the product(s) or components of product(s) you supply to Taymark must conform. You must perform the associated test(s) and provide Taymark with the test data to support the fact that the test(s) was (were) conducted and that the product(s) or components of product(s) meets the described requirements. You are responsible for conducting the mandatory testing, and you are responsible for any expenses incurred as a result of conducting the test(s) (including, without limitation, the costs and expenses associated with providing any samples, testing, reporting, and preparing the General Certificate of Conformity).

: The symbol ("") on the attached form indicates that additional charges may apply. Taymark's preferred Accredited Third-Party Testing Facility is Intertek. If you choose to use Intertek to conduct the mandatory testing, please reference Taymark and Taylor Corporation when submitting your requests for testing to Intertek as you may be able to take advantage of Taymark and Taylor Corporation's volume discount. You may contact Intertek for a price quote and any additional information they might need in order to conduct the required testing.

Additional Accredited Third-Party Testing facilities can be found at <http://www.cpsc.gov/cgi-bin/labsearch/>.

Note:

Where there is no applicable US standard, Intertek has chosen the most relevant International Standard to assess the product safety and performance. For undated references, the latest edition of the referenced document (including any amendments) applies.

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		Page	2 of 5

Attribute	Test Method / Standard	Requirement / Limit	Result
Supplemental Protocol(s)			
*† CA Prop 65 (mandatory in state California)	Intertek Protocol	Consent Judgment of related court case based on California Proposition 65. See http://oehha.ca.gov/prop65.html	
*† Children's Products (non-toy)	TYCP-16026-US	Shall review against the Children's Products Supplemental and shall comply the applicable requirements. See Children's Products (Non-toy) Protocol posted at http://www.taymarkinc.com	
<i>Note: Additional cost, sample size & TAT may be required if testing to one or more supplemental protocols is necessary. Please refer to the above referenced supplemental protocol(s) for additional information.</i>			
Chemical Analysis			
*Lead Content of Paints or Similar Surface Coating	16 CFR 1303 (scope widened)	Shall not contain Lead or Lead compounds in which the Lead content is in excess of 0.009% by weight of the total content (90ppm).	
*† Extractable Cadmium & Lead from Interior of Product for ceramics	FDA CPG 7117.06 + 7117.07	Cd: 0.25 ppm (Large Hollowware / Pitchers) 0.5 ppm (Small Hollowware / Cups / Mugs) 0.5 ppm (Flatware) Pb: 1.0 ppm (Large Hollowware) 2.0 ppm (Small Hollowware) 0.5 ppm (Cups / Mugs / Pitchers) 3.0 ppm (Flatware)	
* Extracted Lead and Cadmium from Rim Decoration	SGCD / ASTM C927-80 (R2004) /	Exterior decorations applied within 20 mm of the rim of cups, mugs, glasses or other vessels shall conform to the applicable requirements as defined by the standards: Pb: 4.0 ppm Cd: 0.4 ppm	
* Extractable Cadmium & Lead in tableware	California Health and Safety Code section 108860	Cd: 0.25 ppm (Large Hollowware / Pitchers) 0.5 ppm (Small Hollowware / Cups / Mugs) 0.5 ppm (Flatware) Pb: 1.0 ppm (Large Hollowware) 2.0 ppm (Small Hollowware) 0.5 ppm (Cups / Mugs / Pitchers) 3.0 ppm (Flatware)	

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		Page	3 of 5

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†* FDA Solvent Extractive on Plastic Materials and Polymeric Coatings which may have contact with food	21 CFR 170 – 189	Products intended for use in contact with food shall conform to the applicable requirements of the Food, Drug, and Cosmetic Act (FDCA), specifically 21 CFR 170 through 189. Test report or suitable certificate with declaration letter confirming the plastic material that is used for food-contact meeting the FDA requirements shall be provided. In lieu of testing, the above documents can be submitted if dated within 1 year.	
*†Toxic Elements in Packaging Components	TPCH	Shall comply with TPCH in those states in the US with legislation. Total concentration of Pb, Cd, Hg and hexavalent Cr < 100ppm.	
Physical Characteristic			
Dimensions (L x W x H)	ITS-M0059	Report overall dimensions; shall be within ¼ in. of the claimed value (if applicable).	
Weight (Lbs. / Oz.)	ITS-M0059	Report overall weight; shall meet label claims (if applicable).	
Capacity (Fl. oz.)	ITS-M0059	Report overall capacity; shall be within 5% of total volume (if applicable).	
Construction & Workmanship			
Sharp Points / Edges	16 CFR 1500.48 / 1500.49 (Scope widened)	Shall have no sharp points/edges, other than those required for function.	
Defects	Visual Check	Shall have no discernible surface degradation, including crazing, shivering, denting, bubbles, cracks, stains, deformations, chips, fractures, heavy lines, waves, shear marks, scratches, scuff marks, indentations, or blisters.	
Workmanship	Visual Check	Shall have no components missing, malformed, and/or fractured.	
Type of Material	Visual Check	Report actual; shall meet label claims (if applicable).	
Top/Lid Fitting Ability	Visual Check	Shall provide a secure but not locking fit.	
Joint	Visual Check	No gap in excess of 0.008 in. (0.2mm) unless this is the design feature. For cookware and bakeware (ovenware) with lids only.	
Performance Test			
Tilt Resistance	ITS-M0015	No tipping on 10° incline.	
Stain Resistance	ITS-M0014	Shall resist permanent staining - Apply various food materials on surface, let stand for 2 hours. Subject to 1 dishwasher or handwash cycle afterwards.	
Water Retention	PAS 54:2003 Clause 4.1.9	No sign of leakage (presence of stain mark).	

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		Page	4 of 5

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Integrity of Handle Strength	EN ISO 8442-8:2000 Clause 6.2	No breakage at handle. Note: - Only applicable for mugs and pitchers. - NOT applicable for integral handle of bakeware.	
* Thermal Shock Endurance	EN 1183:1997 Test Method B & PAS 54 Clause 4.1.4	<u>For cups, mugs, teapots and coffee pots</u> Temperature differential $\geq 194^{\circ}\text{F}$ (90°C) <u>For ovenware</u> Temperature differential $\geq 302^{\circ}\text{F}$ (150°C)	
Resistance to Freezing	PAS 54 Clause 5.2	No crack or other visible damage.	
*Dishwasher Safe (For ceramic articles only)	EN 12875-4:2006 Clause 8	No major loss in gloss or colors when inspected per EN 12875-2.	
*Dishwasher Safe (Other than those ceramic parts)	ITS-M0001	Dishwasher with detergent for 10 cycles – no color change or adverse effects.	
Handwash Safe (If claimed to be not dishwasher safe)	ITS-M0003	10 cycles of hand wash in using domestic detergent rubbed with damp cloth gently with warm water (140°F) - No adverse effects.	
* Impact Resistance	ASTM C368-88 (Reapproved 2006)	Average impact energy to produce failure $\geq 0.05\text{J}$.	
* Resistance to Moisture Absorption	ASTM C373-88 (Reapproved 2006)	Report actual	
* Resistance to Corrosion (For metal components)	ASTM B117-03 (Modified)	No major corrosion or visual change after 24 hours in 1% salt spray (fog).	
*Transit Testing (By request only)	ISTA Procedure as Appropriate to Package	Packaged product shall be tested to applicable ISTA procedure and method, based on package configuration. Inspect package and product for damage upon completion of test. Report results.	
Heat Resistance (For oven-use articles)	EN 13834 Clause 6.1.8	Shall show no damage after testing for 1 hour at : - a temperature of 20°C above the manufacturer's recommended maximum temperature (if claimed); or - 250°C where no maximum temperature is given	
Resistance to Freezer to Oven Usage	PAS 54 Clause 5.2	No crack or other visible damage	

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		Page	5 of 5

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Microwave Safe	ASTM C1607-06 (Modified)	<ul style="list-style-type: none"> No crack or damage Surface temperature after test: <u>For flatware</u> <ul style="list-style-type: none"> After 1 minute test: ≤ 160°F (71°C) After 5 minutes test: ≤ 325°F (163°C) <u>For cups and mugs</u> <ul style="list-style-type: none"> Handle: ≤ 140°F (60°C) Body: ≤ 250°F (121°C) <p>Modification: A microwave oven with 1000 Watts power was used.</p>	
* Craze Resistance	ASTM C554-93 (Reapproved 2006)	<p>Shall not craze up to and including 3 cycles at 300°F (149°C).</p> <p>Note: May have cracked without crazing.</p>	
Labelling			
One Time Use Products	F.P. & L. Act (16 CFR 500) OR NIST Uniform Laws and Regulations Handbook 130	Manufacturer, packer, or distributor's name & address (city, state & zip)	
† Fair Packaging and Labeling Act OR All Other Products		Product Identification	
† Uniform Packaging and Labeling Regulations		Net quantity of contents shall be expressed in terms of weight or mass, measure, numerical count, or combination so as to give accurate information to facilitate consumer comparison (U.S. and metric units).	
† Country of Origin Marking	19 CFR 134.11	Shall indicate country of origin legibly, permanently, and in comparable size and close proximity to any mention of country other than country in which the article was manufactured or produced. Must be visible at point of purchase.	
Parts Labeling	Visual Check	Shall match the actual content if present.	
Use Labeling	ITS-M0060	Use/care instructions that are clear and understandable shall be provided in language appropriate to destination countries.	
Verify Label claims	ITS-M0060	Must comply with all claims	
Instructions	ITS-M0060	Shall provide an easy understandable instructions regarding assembly, use and maintenance	
† Marking for Tableware items for the State of California	CA Health & Safety Code, section 108870	All tableware items distributed in the State of California with lead or cadmium intentionally added or which are unintentionally contaminated must be permanently and indelibly marked with the name, or if the item is too small, a registered trademark, of the manufacturer or importer.	

Remark: Additional tests may be incurred subject to the final samples reviewed by Intertek.

If the order quantity > 2000pcs per year, 12 pieces of samples are requested for Leachable Pb & Cd for California Prop 65.